S/N: 10/595,416

Reply to Office Action of December 30, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A gasification boiler for solid fuels, in particular for bales

of straw, with optimized exhaust gas values and burn-up at the bottom, the boiler comprising:

a fuel and gasification space which can be closed by means of a filling door and has closable by a filling door and having air feeds and depressions for collecting ash, the depressions disposed adjacent to [[,]] a grating arranged at the bottom of the fuel and gasification space [[,]];

a combustion space situated below [[it]] the grating; , and an ash separator, heat exchange surfaces and fan arranged behind it in terms of flow, characterized

in that the fuel and gasification space has depressions for collecting ash laterally next to the centrally arranged grating and the combustion space,

a cylindrical secondary combustion chamber designed as an additional constructional unit is connected to the an outlet of the combustion space [[,]]; and

and a cylindrical an ash separator which is designed as an additional constructional unit and located downstream from the secondary combustion chamber, [[is]] the ash separator being connected to a known heat exchanger is connected to the combustion chamber.

- 2. (Currently Amended) The gasification boiler as claimed in claim 1, characterized in that the lower, lateral depressions of the fuel and gasification space are of half-shaped design and run parallel to the combustion space and the latter is in each depression has case assigned a small door for the removal of ash.
- 3. (Currently Amended) The gasification boiler as claimed in claim 1 characterized in that the cylindrical secondary combustion chamber is cylindrical and connected at the bottom tangentially to the outlet of the combustion space, so that the combustion gas rises therein in a swirling manner and in that the combustion chamber can be closed at the top by a cover.

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4. (Currently Amended) The gasification boiler as claimed in claim 1 characterized in that the cylindrical ash separator is cylindrical and connected at the top tangentially to the outlet of the secondary combustion chamber, and wherein a flue substantially vertical pipe with the opening approximately halfway up is arranged centrally within the ash separator, the pipe having a lower opening approximately halfway up a height of the ash

separator.

5. (Currently Amended) The gasification boiler as claimed in claim 4, characterized in that a circular baffle plate is fitted below the opening of the flue pipe in such a manner that an annular opening for the depositing of ash remains from the an outer wall of the ash separator, and in that the ash separator can be closed at the top by a cover.

6. (Currently Amended) The gasification boiler as claimed in claim 1 characterized in that the <u>cylindrical secondary</u> combustion chamber, the <u>cylindrical ash</u> separator and the heat exchanger are connected in a framework to form a constructional unit.

7. (Currently Amended) The gasification boiler as claimed in claim 2 characterized in that the eylindrical secondary combustion chamber is cylindrical and connected at the bottom tangentially to the outlet of the combustion space so that the combustion gas rises therein in a swirling manner and in that the combustion chamber can be closed at the top by a cover.

8. (Currently Amended) The gasification boiler as claimed in claim 2 characterized in that the cylindrical ash separator is cylindrical and connected at the top tangentially to the outlet of the combustion chamber, and a flue substantially vertical pipe with the opening approximately halfway up is arranged centrally within the ash separator, the pipe having a lower opening approximately halfway up a height of the ash separator.

9. (Currently Amended) The gasification boiler as claimed in claim 3 characterized in that the eylindrical ash separator is cylindrical and connected at the top

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tangentially to the outlet of the <u>secondary</u> combustion chamber, and <u>wherein</u> a <u>flue substantially vertical</u> pipe with the opening approximately halfway up is arranged centrally within the ash <u>separator</u>, the pipe having a lower opening approximately halfway up a height of the ash <u>separator</u>.

10. (Currently Amended) The gasification boiler as claimed in claim 2 characterized in that the cylindrical secondary combustion chamber, the cylindrical ash separator

and the heat exchanger are connected in a framework to form a constructional unit.

11. (Currently Amended) The gasification boiler as claimed in claim 3

characterized in that the cylindrical secondary combustion chamber, the cylindrical ash separator

and the heat exchanger are connected in a framework to form a constructional unit.

12. (Currently Amended) The gasification boiler as claimed in claim 4

characterized in that the cylindrical secondary combustion chamber, the cylindrical ash separator

and the heat exchanger are connected in a framework to form a constructional unit.

13. (Currently Amended) The gasification boiler as claimed in claim 5

characterized in that the cylindrical secondary combustion chamber, the cylindrical ash separator

and the heat exchanger are connected in a framework to form a constructional unit.

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